

THE UNITED STATES OF AMIERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME: Seminis Hegetable Seeds, Inc.

HICIOIS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE UGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR PORTUNG IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT ED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

LETTUCE

'Top Billing'

In Jestimon Myerror, I have hereunto set my hand and caused the seal of the Hunt Inviery Protection Office to be affixed at the City of Washington, D.C. this eleventh day of December, in the year two thousand and six.

Attost:

Denz

Commissioner Plant Variety Protection Office Agricultural Marketina Service Secretary Sculture

CAPACITY OR TITLE

CAPACITY OR TITLE

IP Specialist

DATE

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

US: November 2003 Sale

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089. http://www.ams.usda.gov/lsg/seed.htm

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

ST-470 (02-10-2003) designed by the Plant Variety Protection Office with Word 2000. Replaces former versions of ST-470, which are obsolete.

phoplos

Exhibit A. Origin and Breeding History of Lettuce SVR 5164

Pedigree of SVR 5164

Female cv. BountyXcv.	_{Male} Winterhaven 1996
↓ F ₁ ↓	1996
• F ₂ ↓	1997 3 single plant selections
F ₃ ↓	1998 10 single plant selections
. F ₄	1999 32 single plant selections
. F ₅	2000 20 single plant selections
F ₆	2001 18 single plant selections
SVR 5164 F ₇	2002 trials and seed increase
F ₈	2003 commercial trials and seed increase
\	and seed morease
F ₉	2004 commercial sale and seed increase

SVR 5164 originated in 1996 with the cross cv. Bounty by cv. Winterhaven. Single plant selections were made in subsequent years in the areas of intended commercialization. By F_6 a group of 18 plants were judged uniform and bulked for trialing and seed increase. An F_7 mass was trialed during 2002 and a seed increase was produced in the San Joaquin Valley the same year.

The breeding work was carried out by Dr. William Waycott at the Seminis Vegetable Seed's Research Station at Arroyo Grande, California. Replicated field trials were conducted in production areas in the San Joaquin Valley of California during 2003 and 2004.

The breeding method employed was pedigree selection, using both single plant selection and mass selection practices. The selection criteria for SVR 5164 were to establish a cultivar with increased uniformity, improved heading ability, increased size and weight, when compared to the most similar variety, cv. Red Coach 74.

In trials of SVR 5164 during the last three years covering generations F_9 to F_{11} , we have seen neither genetic variants nor off-types in more than 4,500 plants, indicating that this variety is genetically uniform and stable.

Exhibit B. Novelty Statement of Lettuce SVR 5164 Top Billing

SVR 5164 is described as a vigorous crisphead lettuce cultivar adapted to the San Joaquin Valley of California. Its optimum sowing period is from 10 to 30 November in the San Joaquin Valley, mostly located in Fresno County, SVR 5164 was selected for improved uniformity and performance, and increased head size and weight, compared to the currently commercial cultivars grown during these production periods.

Phenotypically, SVR 5164 is distinct from its most similar commercial cultivar, cv. Red Coach 74. In field tests in 2003 and 2004, SVR 5164 was larger in size (plant diameter: 53.6 cm vs. 51.2 cm and head diameter: 21.1 cm vs. 18.0 cm) and heavier in weight (1018 g vs. 897 g) than cv. Red Coach 74, had a more appealing appearance (smoother bottom appearance with less pronounced ribs, as measured by rib thickness) (14.5 mm vs. 20 mm), and a much improved uniformity of heading (Table 1).

in replicated field trials, SVR 5164 consistently exhibited more plants with rounder, firmer heads, while heads of cv. Red Coach exhibited less uniformity of heading with several plants exhibiting soft or misshapen heads.

The data presented here are statistically different at the 95% confidence level, exhibiting a range of means for bottom rib thickness from 13.16 to 14.84 for SVR 5164 and from 18.80 to 20.70 for cv. Red Coach 74, of means for plant diameter from 53.20 to 53.85 for SVR 5164 and from 50.87 to 51.48 for cv. Red Coach 74, of means for head diameter from 19.66 to 20.49 for SVR 5164 and from 17.56 to 18.40 for cv. Red Coach 74, and of means for head weight from 1015.52 to 1020.48 for SVR 5164 and from 893.89 to 899.61 for cv. Red Coach 74, using the 0.95 probability of generating confidence intervals (CI) that contains the means.

Table 1. Evaluation of Top Billing (SVR 5164) and the most similar cultivar, cv. Red Coach 74, for several important characters.

Illivar Rib thick- Reb No. Plant Reb No. Plant				Bottom			
SVR 5164: Rep. 1 13±0.4 53.7±1.6 19.1±1.7 Rep. 2 14±0.4 53.8±1.5 19.2±1.6 Average: 14±0.4 53.8±1.5 19.2±1.6 W. Red Coach 74: Rep. 1 19±0.5 50.6±1.8 16.9±1.9 Average: 20±0.5 50.9±1.9 17.4±1.8 SVR 5164: Rep. 1 15±0.4 52.9±1.4 20.7±1.6 Average: 15±0.4 53.3±1.4 20.9±1.7 Rep. 2 19±0.4 51.8±1.8 18.9±1.9 Rep. 2 21±0.3 51.1±1.6 18.9±1.9 Average: 20±0.4 51.5±1.7 18.6±2.0	Trial No	Cultivar	Rep No.	Rib thick- ness³	Plant Diam. ^b	Head Diam.°	Head Weight ^d
Average: 14±0.4 53.8±1.5 19.2±1.6 Red Coach 74: Rep. 2 20±0.5 50.6±1.8 16.9±1.9 Rep. 2 20±0.5 51.2±1.9 17.9±1.7 Average: 20±0.5 50.9±1.4 20.7±1.6 Rep. 2 14±0.3 52.9±1.4 20.7±1.6 Rep. 2 14±0.3 53.6±1.4 20.9±1.7 Average: 15±0.4 53.3±1.4 20.9±1.7 Rep. 2 19±0.4 51.8±1.8 18.9±1.9 Rep. 2 21±0.3 51.1±1.6 18.2±2.0 Average: 20±0.4 51.5±1.7 18.6±2.0	Trial 1: Evaluated	SVR 5164:	Rep. 1 Rep. 2	13±0.4 14±0.4	53.7±1.6 53.9±1.4	19.1±1.7 19.3±1.5	944±9.5 938±10.0
v. Red Coach 74: Rep. 1 19±0.5 50.6±1.8 16.9±1.9 Rep. 2 20±0.5 50.9±1.9 17.9±1.7 Average: 20±0.5 50.9±1.9 17.4±1.8 SVR 5164: Rep. 1 15±0.4 52.9±1.4 20.7±1.6 Rep. 2 14±0.3 53.6±1.4 20.7±1.6 Average: 15±0.4 53.3±1.4 20.9±1.7 Rep. 2 21±0.3 51.8±1.8 18.9±1.9 Rep. 2 21±0.3 51.1±1.6 18.6±2.0	rch 20 CA	003	Average:	14±0.4	53.8±1.5	19.2±1.6	941±9.8
Average: 20±0.5 50.9±1.9 17.4±1.8 SVR 5164: Rep. 1 15±0.4 52.9±1.4 20.7±1.6 Rep. 2 14±0.3 53.6±1.4 21.0±1.7 Average: 15±0.4 53.3±1.4 20.9±1.7 Rep. 2 19±0.4 51.8±1.8 18.9±1.9 Rep. 2 21±0.3 51.1±1.6 18.2±2.0 Average: 20±0.4 51.5±1.7 18.6±2.0		cv. Red Coach 7₄	t: Rep. 1 Rep. 2	19±0.5 20±0.5	50.6±1.8 51.2±1.9	16.9±1.9 17.9±1.7	887±13.5 832±12.8
SVR 5164: Rep. 1 15±0.4 52.9±1.4 20.7±1.6 306 Average: 14±0.3 53.9±1.4 21.0±1.7 Average: 15±0.4 53.3±1.4 20.9±1.7 cv. Red Coach 74: Rep. 1 19±0.4 51.8±1.8 18.9±1.9 Rep. 2 21±0.3 51.1±1.6 18.2±2.0 Average: 20±0.4 51.5±1.7 18.6±2.0			Average:	20±0.5	50.9±1.9	17.4±1.8	860±13.2
Average: 15±0.4 53.3±1.4 20.9±1.7 :v. Red Coach 74: Rep. 1 19±0.4 51.8±1.8 18.9±1.9 Rep. 2 21±0.3 51.1±1.6 18.2±2.0 9 Average: 20±0.4 51.5±1.7 18.6±2.0 9	Trial 2: Evaluated	SVR 5164:	Rep. 1 Rep. 2	15±0.4 14±0.3	52.9±1.4 53.6±1.4	20.7±1.6 21.0±1.7	1078±12.6 1112±12.1
19±0.4 51.8±1.8 18.9±1.9 21±0.3 51.1±1.6 18.2±2.0 ge: 20±0.4 51.5±1.7 18.6±2.0	e iviarch zuo Yuma, AZ	٥	Average:	15±0.4	53.3±1.4	20.9±1.7	1095±12.4
20±0.4 51.5±1.7 18.6±2.0		cv. Red Coach 74	t: Rep. 1 Rep. 2	19±0.4 21±0.3	51.8±1.8 51.1±1.6	18.9±1.9 18.2±2.0	914±12.8 954±11.9
			Average:	20±0.4	51.5±1.7	18.6±2.0	934±12.4

Range of variation among means of statistically significant differences at the 95% level using the confidence interval [CI = mean ± (SDXSE)]:
SVR 5164
13.16 to 14.84 53.20 to 53.85 19.66 to 20.49 1015.52 to 1020.48
cv. Red Coach 74
18.80 to 20.70 50.87 to 51.48 17.56 to 18.40 893.89 to 899.61

a Mean rib thickness measured 50 cm from the point of attachment to the stem using two sowing dates of 20 plants per replication in mm ± standard deviation.

 $^{\mathrm{b}}$ Mean plant diameter using two sowing dates of 20 plants per replication in cm \pm standard deviation.

 $^{\circ}$ Mean head diameter using two sowing dates of 20 plants per replication in cm \pm standard deviation.

 $^{
m d}$ Mean head weight using two sowing dates of 20 plants per replication in grams \pm standard deviation.

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U. S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705 EXHIBIT C (Lettuce)

OBJECTIVE DESCRIPTION OF VARIETY LETTUCE (Lactuce sative 1.)

		~	<i></i>	n (muceaca a	L.,	,		
NAME C	•						FOR	OFFICIAL USE ONLY
Semin 2700 (Oxnard	is Vegetable Seed Camino del Sol I, CA 93030-7967	s, Inc.	and the			VARIET	Y NAME	00400254 op Billing SUR5164
Place the appropriate n or 9 or less. Measured be used to determine p	umber that describes the various data should be the mean of an a lant colors.	ppropriate nun	aber (at leas	Place a ze	ro in the first bo aced plants. Roy	x (eg. o 9 /al Horticultu	g or 0 ral Society	g) when number is either 99 or less or any recognized color standard may
The location of the test area	* CALIFORA	JVA.		Colar Sy	stem Used: K	NALI	Har	ZI Soc
SPECIFIC VARIET which are adapted to Application Variety	your area. One of the co	omparison v	arieties m	nust be the m	S IN THIS AI ost similar va milar Variety	riety used	in Exhib:	standard regional check varietie it B. COACH 74
Standard Regional (Check Variety (c2.)	ANGL	IARD					
	02=Butterhead	04= Cos or 05= Great I 06= Vangua	akes Gro	up 08=E	alinas Group astern (Ithaca em) Group	10= La 11= O7	tin THER (Specify below):
		(a1.)	06	,	(c1.)	06	(c2.)	06
2. SEED:								
(a1.) 2 (c1.) 2 (c2.) 2	COLOR 1= White (Silver Grey 2= Black (Grey Brown 3= Brown (Amber)	•	নি ক ক	1= Light R	ORMANCY equired ot Required	(a1.) (c1.) (c2.)		HEAT DORMANCY 1= Susceptible 2= Not Susceptible
					• .			
3. COTYLEDON	TO FOURTH LEAF ST		E: Provide		aph or photocop	y of the four	h leaf fron	n 20 day old seedling grown under
SHAPE O	F COTYLEDONS:	1=Broad	2= Inte	nnediate 3	= Spatulate			
		(a1.)	2	1	1.)		(c2.)	2

Cotyledon to Fourth Leaf	A Company							
SHAPE OF FOURTH LE	AF:	(a1.)	4	(c1.)	4	(c2.)	4	
								Jan Jan
1.	2.		3.		4.		5.	6.
LENGTH/WIDTH INDEX	COF FOURTH LE	(a1.)	W x 10	(c1.)	119	(c2.)	<u>يار</u>	
APICAL MARGIN:	1= Entire 2= Crenate/Gnav 3= Finely Dentat		4= Moderately 5= Coarsely De 6= Incised		7= Lol 8= OT		ecify below	w):
		(a1.)	3	(c1.)	3	(c2.)	3	
BASAL MARGIN: (Ise the options for A	Apical M	(argin above)					• .
	•	(a1.)	4	(c1.)	4	(c2.)	4	
UNDULATION:	l= Flat		2= Slight	 	3= Me	dium		4= Marked
		(a1.)	2	(c1.)	2	(c2.)	2	
GREEN COLOR:	l=Yellow Green 2= Light green		3= Medium 4= Dark Gr			e Green er Green		7= Grey Green
		(a1.)		(c1.)		(c2.)	3	
ANTHOCYANIN: DISTRIBUTION:	1= Absent 2= Margin Only		3= Spotted 4= Throughout	-VOSI		HER (Spe	ecify below	<i>י</i>):
		(a1.)		(c1.)		(c2.)		· · · · · · · · · · · · · · · · · · ·
CONCENTRATION:	1= Light	**********	2= Moderate	*******	3= Inter	e	******************	***************************
		(a1.)		(c1.)	_	(c2.)		

	Cotyledon to Fourth Leaf	Stage (Continued)				
	ROLLING:	l= Absent	2= Present			
		(a1,)		(c1.)	(c2.)	
	CUPPING:	l=Uncupped	2= Slight	3= M	arkedly	
		(a1.)		(c1.)	(c2.)	τ
	REFLEXING:	1= None	2= Apical Marg	in 3= La	iteral Margins	
		(a1.)	1	(c1.)	(c2.)	Ī
1.	MATURE LEAVES (Obse	rve Harvest-Mature Outer Leaves)		or photo of a harvest-mat	rre leaf which acc	curately shows color and margin
	MARGIN:		characteristics.			
	INCISION DEPTH: (deepest penetration of the margin)	1=Absent/Shallow (Dark 3= Deep (Great Lakes 65		2= Moderate ((Vanguard)	
		(a1.)		(c1.)	(c2.)	
	INDENTATION: (finest divisions of the margin)	1= Entire (Dark Green B 2= Shallowly Dentate (G 3= Deeply Dentate (Grea	reat Lakes 65)	4= Crenate (V 5= OTHER (S		
		(a1.)	4	(c1.) 4	(c2.)	4
	UNDULATIONS OF APICAL MARGIN:	THE 1= Absent/ Slight (I 3= Strong (Great La) 2= Moderate	(Vanguard)	
		(a1.)	2	(c1.) 2	(c2.)	a
	GREEN COLOR:	1=Very Light Green 2= Light green (Min		dium Green (Great I rk Green (Vanguard)		5= Very Dark Green ER (Specify):
		(a1.)	4	(c1.) 4	(c2.)	4
	ANTHOCYANIN:	<u> </u>				
	DISTRIBUTION:	1=Absent 2= Margin Only (Big Bo		(Calif. Cream Butte hout (Prize Head)	r) 5= OTHI	ER (Specify below):
		(a1.)		(c1.) [(c2.)	1
	CONCENTRATION	: 1=Light (Iceberg)	2= Moderate (F	rize Head) 3= I	ntense (Ruby)	***************************************
		(a1.)		(c1.)	(c2.)	

					, marin 670	
Mature Leaves (Continued)					Exhibi	t C (Lettuce) Page 4 of
SIZE:	1= Small	2= Medium		= Large		
	(a1.			-	7	
GLOSSINESS:			ري	(c2.)	. 🖳	
3335511 (255),	1= Dull (Vanguard)	2= Moderate	(Salinas) 3	= Glossy (Gre	eat Lakes)
	(a1.) [(c1.) [(c2.)		
BLISTERING:	1= Absent/Slight (Salinas)	2=Moderate (Vanguard)		= Strong Prize Head)		
	(a1.)) [<u>]</u>	(c1.) 2	(c2.)	2	
LEAF THICKNESS:	1= Thin	2= Intermedia	te 3	= Thick	· • <u>• •</u> •	
	(a1.)	3	(c1.) 3	(c2.)	3	
TRICHOMES:	1= Absent (Smooth)	2= Present (Sp	oiny)			
	(a1.)	7	(c1.)	(c2.)		· · · · · · · · · · · · · · · · · · ·
PLANT	<u> </u>	· · · · · · · · · · · · · · · · · · ·	<u> </u>	<u> </u>		
SPREAD OF FRAME LEA	VES: (a1.) [5 4cm	(c1.) 5]cm	(c2.)	41 cm
HEAD DIAMETER: (mark	et trimmed with single cap	p leaf)		- <u></u>		
	(a1.) [1 9 cm	(c1.)	7 cm	(c2.)	1 8 cm
HEAD SHAPE:	1= Flattened 2= Slightly Flattened	3= Spherical 4= Elongate		= Non-Heading = OTHER (Spe		
	(a1.)	3	(c1.) 3	(c2.)	3	
HEAD SIZE CLASS:	1= Small	2= Medium	3=	- Large		
	(a1.)	3 82 8	(c1.) [3]	(c2.)	3	
HEAD PER CARTON:		· · · · · · · · · · · · · · · · · · ·	(G PU 4			
	(a1.)	24	TYGS(PL)	14	(c2.)	24
HEAD WEIGHT:						
	(a1.)	162g (:1.)	0 g	(c2.)	844g
HEAD FIRMNESS:	1= Loose	2= Moderate	3=	Firm		4= Very Firm
	(a1.)	4	(c1.) 4	(c2.)	4	

	BUTT							
4	SHAPE:	1= Slightly Concave		2= Flat		3= Rounded		
			(a1.)	3	(c1.) 3	(c2.)	3	
•	MIDRIB:	1= Flattened (Salinas) ·	2= Moderately R	aised	3= Prominently F	Raised (G	reat Lakes 659)
			(a1.)	2	(c1.)	(c2.)	2	
•	CORE			····				
	DIAMETER AT BASE	OF HEAD:						
		•	(a1.)	32mm	(c1.)	35mm	(c2.)	3 3 mm
	RATIO OF HEAD DIA	METER/CORE DIAM	METER	•				
			(a1.)	59	(c1.)	5.4	(c2.)	50
5	CORE HEIGHT FROM	I BASE OF HEAD TO	O APEX					
			(a1.)	45mm	(c1.)	4 2 mm	(c2.)	4.6mm
3.	BOLTING (Give First Wate	er Date: 28 APP 11 0	3) NO	OTE: First Water Da	ate is the date see	d first receives adequa	te moisture	to germinate. This can and
	MIRADED OF DAVE D	DAM BUDGE XI/A TER	BYNA PERE	_	ual the planting d		anditions	۸.
	NUMBER OF DAYS F	KOM FIRST WATE		TO SEED STAL		ACE (Summer Co		<i>y</i> .
			(a1.)		(c1.)	52	(c2.)	1614
٠.	BOLTING CLASS:	1= Very Slow 2= Slow		3= Medium 4= Rapid		5= Very Rapid	٠.	
	 		(a1.)	3	(c1.)	(c2.)	3	
	HEIGHT OF MATURI	E SEED STALK:						
			(a1.)	1 1 5 cr	m (c1.)	1250	m (c2.)	130cm
	SPREAD OF BOLTER	PLANT: (at widest p	ooint)					
			(a1.)	69cm	(c1.)	68 cm	(e2.)	6 2 cm
	BOLTER LEAVES:	1= Straight		2= Curved	· · · · · ·			•
			(a1.)		(c1.)	(c2.)		
	MARGIN:	1= Entire	(a1.)	2= Dentate	(c1.)	(c2.)	2	

8.	Bolting (Continu	ied)			•				77						
	COLOR:				1=	= Light G	reen	2=	= Med	lium Gr	een		. 3	8= Dark	Green
			÷		(a1.)	3		(c1.)	3	7	(c2.) 3	7		
	BOLTER HABI	T:	······································				······	•							
	TERMINAI		RESCEN	CE:		l= Abs	ent			2= Pre					
			· · · · · · · · · · · · · · · · · · ·	·· ···· ··	(a1.)	<u> </u>	CIII.	(c1.)		2- FI	жені (с2.	1 5	1		
	**************************************					[67]	***********		10	7		ا لم	J		
	LATERAL	SHOOTS	:		7. T.X	1= Abs	ent			2= Pre			7		
					(a1.)	2		(c1.)	19	닠	(c2.) 2	1		
	BASAL SID	E SHOO	rs:	, 1 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	P10171+4ccaqeeqan3q	I= Abs	ent		*********	2= Pre	sent	***********	*********	*********	*****************
	•				(a1.)	T		(c1.)	I		(c2.) []		
9.	MATURITY	(earliness oj	f harvest-m	ature head	formation)								<u></u>		
		NOTE: (Complete th	is section f	or at least one	e season.						·	11.11		
Г	SEASON	APPLIC	ATION V	ARIETV	MOSTS	IMILAR V	ADTERNI	9713		b breve			1		•
		r	io. of days	LLLDJ I	110313	no. of days	ARIELI	SIA	NDAR.	D REGIO VARIE no. of da	ΓY	ECK.			
	Spring	 	1					+		110. 01 02	ys 				
	Summer							+-							
	Fall				·					-		<u>, ; </u>			
L	Winter	1	3	5	- 1	3	9	 	l	3	1	₹.			
							'			<u> </u>		اينب بـــــــــــــــــــــــــــــــــــ	Ц		
	Give planting date	(s) and lo	cation(s):	}			-				• •				
	Spring:														
	Summer:														
	Fall:					·······									
		None	ເວ?	101)ort (77	1	10	<u> </u>		^				
			<u>~~</u> ,	T	10 V C	<i>)</i>		NR	<u>UN</u>	<u>, C</u>	1				
	1. First Water Date	to Harvest						ē							
10.	ADAPTATION:			•				·							
	PRIMARY P	REGIONS	OF AD	APTATI	ON (tested a	and proven a	adapted):	(0= Not		æđ	1= N	ot Adap	ted		2= Adapted)
2	Southwest (C.		Z desert) [c) We	st Coast	1 58 1	er v	0.	0	North	east			
0	North-central	•		C	Son	utheast					ОТН	ER (Spe	cify):	·	
		_			-	0.3.		/d8	116	1——			•	•	
	SEASON:			. •		ſ		Jid						,	
	2 Spring	(Атеа_	CALL	FOR N	LA)	П	Fall		(Area	CAI	-150	RNI	A)
	Summer			FORN			1.1	Winter				LF0/)
. 1														.,	-
.					to.										•
	GREEN	IOUSE:	0=	= Not Tes	sted	1=]	Not Adap	ted		**************************************	2= A	lapted			***************************************
ļ	SOIL TY	PE:	1=	= Mineral	***************************************	2= (Organic	***********		***********	3= Bo			•••••••	************
			_			_ `					J- 15(-11			

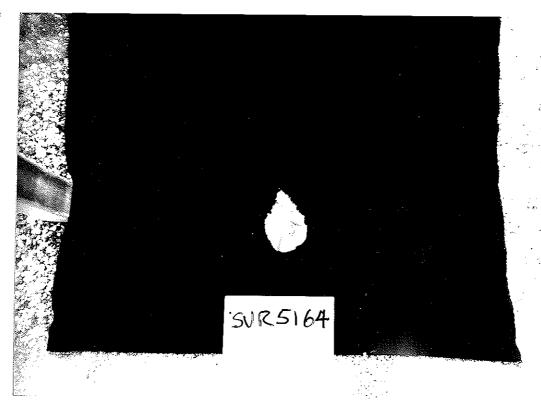
Exhibit C (Lettuce) Page 7 of 8

11.	VIRAL DISEASES 1= Immune 3= Resistant 5= Moderat	elv Resist	ant/M	oderately Susceptible 7= S	uscentible	9= Highl	y Susceptib	le
W.	Big Vein	(a1.)	F	(c1.)		(c2.)) 	
by.	Lettuce Mosaic	(a1.)	14	(c1.)	1	(c2.)	1	•
1,106	Cucumber Mosaic	(a1.)	H	(c1.)		(c2.)	 	
412	Tomato Bushy Stunt, cause of dieback	(a1.)	\vdash	1			 	•
-	Turnip Mosaic		-	(c1.)		(c2.)	H	•
	Beet Western Yellows	(a1.)		(c1.)	_	(c2.)	H	
	Lettuce Infectious Yellows	(a1.)		(c1.)		(c2.)		
		(a1.)		(c1.)		(c2.)		
	OTHER (Specify):	(a1.)		(c1.)		(c2.)	\square	
12.	FUNGAL/BACTERIAL DISEASES 1= Immune 3= Resistant 5= Moderat	oly Dogic	tomt/\ I	Ioderately Susceptible 7= S		0_ III-li	ly Susceptil	
	Corky Root Rot		INIO INI	·	uscepuoie	_	ry auscepui	AC .
box	(Races: QU	(a1.)		(c1.)		(c2.)	لــا	
, - JUA	Downy Mildew	(a1.)		(-1)		(-2.)		
$\alpha/2$		(a1.)	لجًا	(c1.)		(c2.)		-
	(Races:) Powdery Mildew	(a1.)			 1	(-2)		
	·	(a1.)		(c1.)		(c2.)	<u>H</u>	
	Sclerotinia Drop	(a1.)		(c1.)		(c2.)		
	Bacterial Soft Rot (Pseudomonas spp. and others)	(a1.)	Ш	(c1.)		(c2.)		-
٠	Botrytis (Grey Mold)	(a1.)		(c1.)		(c2.)		
	Verticillium Wilt	(a1.)		(c1.)		(c2.)		
•	Bacterial Leaf Spot	(a1.)		(c1.)		(c2.)		
	Anthracnose	(a1.)		(c1.)		(c2.		
	OTHER (Specify):	(a1.)	П	(c1.)		(c2.)		
13.	INSECTS 1= Immune 3= Resistant 5= Moderat							
		-	tant/M	Ioderately Susceptible 7= S	Susceptible		ily Suscepti	ble
	Cabbage Loopers	(a1.)		(c1.)		(c2.)		
1. 30	Root Aphids	(a1.)		(c1.)	<u> </u>	(c2.)		ing a second
	Green Peach Aphid	(a1.)		(c1.)		(c2.)		
	Lettuce Aphid	(a1.)		(c1.)		(c2.)		
•	Pea Leafminer	(a1.)		(c1.)		(c2.)		
-	OTHER (Specify):	(a1.)		(c1.)		(c2.)		•
14.	PHYSIOLOGICAL STRESSES 1= Immune 3= Resistant 5= Modera:	tols. Dania	tout /\ /	Ioderately Susceptible 7= S		O_ TT:~1	hly Suscept	ilia
	Tipburn 3 - Resistant 3 - Wodela	(a1.)	tantiv	c1.)	Susceptible	(c2.)	ny Suscept	TOTE
	Heat	(a1.)	무	(c1.)	읡	(c2.)	밀	
5 L	Drought	(a1.)	17	(c1.)	H	(c2.)	닏	
*.	Cold	(a1.)	5	(c1.)		(c2.)		
* .	Salt	(a1.)	12	(c1.)	121	(c2.)	닐	
• • •	Brown Rib	(a1.)	\vdash	(c1.)		(c2.)	H	
	(Rib Discoloration, Rib Blight)	(41.)	<u> </u>	(61.)		(62.)		
	OTHER (Specify):	(a1.)		(c1.)		(c2.)		<u>-</u>

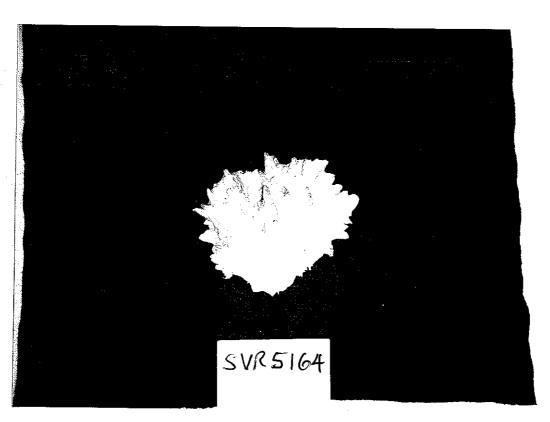
Exhibit C (Lettuce) Page 8 of 8 15. POSTHARVEST STRESS 1= Immune 3= Resistant 5= Moderately Resistant/Moderately Susceptible 7= Susceptible 9= Highly Susceptible Pink Rib (a1.) (c1.)(c2.)**Russet Spotting** (a1.) (c1.)(c2.)Rusty Brown Discoloration (a1.) (c1.)(c2.)Internal Rib Necrosis (a1.)(c1.)(c2.) (Blackheart, Grey Rib, Grey Streak) Brown Stain (a1.) (c1.) (c2.)16. BIOCHEMICAL OR ELECTROPHORETIC MARKERS 17. COMMENTS Suggested Check Varieties TYPE **CHECK VARIETY** Cutting/Leaf Butterhead Waldmann's Green Dark Green Boston Bibb Bibb Cos or Romaine Parris Island Great Lakes Group Vanguard Group Great Lakes 659-700 Vanguard Salinas Group Salinas Eastern Group Ithaca Stem Celtuce Latin Little Gem **Z REFERENCES** Bowring, J.D.C., 1969. "The Identification of Varieties of Lettuce (Lactuca sativa L.)". Journal of the National Institute of Agricultural Botany 11:499-520. National Institute of Agricultural Botany, Cambridge, UK Davis, R.M., K.V. Subbarao, R.N. Raid, and E.A. Kurtz., 1997. "Compedium of Lettuce Diseases". APS Press, St. Paul, MN Michelmore, R. W., J. M. Norwood, D. S. Ingram, L.R. Crute and P. Nicholson. 1984. The inheritance of virulence in *Bremia lactucae* to match resistance factors 3, 4, 5, 6, 8, 9, 10 and 11 in lettuce (*Lactuca sativa*). Plant Pathology 32:176-177. Norwood, J. M., R. W. Michelmore, I. R. Crute and D. S. Ingram. 1983. "The inheritance of specific virulence of Bremia lactucae (Downy mildew) to match R-factors 1, 2, 4, 6 and 11 in lettuce (Lactuca sativa)". Plant Pathology 32:176-177.

Ryder, E.J., 1999. "Lettuce, Endive and Chicory". CABI Publications, Wallingford, UK

Rodenburg, C.M., et al., 1960. "Varieties of Lettuce. An International Monograph," Instituut voor de Verdeling van Tuinbouwgewassen (IVT), Wageningen, NL



Fourth leaf from 20-day old seedlings, SVR 5164



Harvest -mature leaf, SVR 5164

Top Billing RAD 9/2/06

	REPRODUCE LOCALLY. Include form number and edition date on al		ORM APPROVED - OMB No. 0581-0055
٠.	U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	Application is required in order to det certificate is to be issued (7 U.S.C. 2	
	EXHIBIT E	confidential until the certificate is issued	
Vy.	STATEMENT OF THE BASIS OF OWNERSHIP	Confidential drift the Certificate is issu	led (7 0.3.0. 2420).
\mathcal{J}_{i}		O TEMPODADY DECIDIATION	O MADIETY MANE
100	1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
2/	Seminis Vegetable Seeds, Inc.		To Killing
* · · ·	24	PS 06515164	Top Billing
. `	4 ADDDEGG (c)	LE TELEBUIONE	
	4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
	2700 Camino del Sol	(805) 647-1572	(805) 918-2545
	Oxnard, CA 93030-7967	(805) 047-1572	(603) 510-2545
	Onimita, 011 75050-1701	7. PVPO NUMBER	
		, , , , , , , , , , , , , , , , , , ,	
		n a	6 1 × 6 6 P 64
		20	0400256
	8. Does the applicant own all rights to the variety? Mark an "X" in the	e appropriate block. If no, please expl a	in. YES NO
	3		Emon.
	•		
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AXO .	9. Is the applicant (individual or company) a U.S. national or a U.S. t	accord company? If no, give name of a	ountry. YES NO
	o. 10 the applicant (individual of company) a o.o. Hallonal of a o.o. t	vased company? If no, give name of c	ballay. Mo
2/00			*****
<i>3</i> /	40 to the applicant the original survey.	mmil NO 16 I I I I I I I -	of the following:
`	10. Is the applicant the original owner?	NO If no, please answer <u>one</u>	of the following:
	Entered		
	a. If the original rights to variety were owned by individual(s), is	are) the original owner(s) a U.S. Nation	al(s)?
	YES	NO If no, give name of count	
		ito ii iio, give iiaine oi coan	y
	 b. If the original rights to variety were owned by a company(ies) 	, is (are) the original owner(s) a U.S. ba	sed company?
	YES	NO If no, give name of count	
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		L	•
		Annua .	•
		Loons	
	11. Additional explanation on ownership (Trace ownership from original contents of the content	nal breeder to current owner. Use the n	everse for extra space if needed):
	11. Additional explanation on ownership (Trace ownership from original	nal breeder to current owner. Use the r	everse for extra space if needed):
	The variety named in this application was developed by the Semi	nis Vegetable Seeds, Inc., employee (b	reeder) named below. Unless
	The variety named in this application was developed by the Semi otherwise stated, all rights to the varieties developed by Seminis	nis Vegetable Seeds, Inc., employee (b Vegetable Seeds, Inc. are assigned to the	reeder) named below. Unless ne Company by agreement or by
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